Amendments to the Claims

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- 1. (Currently Amended) A sizing composition compatible with a phenolic pultrusion process comprising:
 - 1-7 percent by weight of a <u>polyamide</u> film forming polymer;
 - 0.5 3.0 percent by weight of a silane coupling agent;
 - 0.5 3.0 percent by weight of a non-ionic lubricant;
- 0.2 3.5 percent by weight of a cationic lubricant; and greater than 0 and up to 3 percent by weight of a water dispersible polyether based polyurethane solution.
- 2. (Original) The sizing composition of claim 1, wherein the film forming polymer is selected from the group consisting of acrylics, polyamides, polyesters, polyvinyl acetate, polyurethanes and phenolics.
- 3. (Original) The sizing composition of claim 1, wherein the non-ionic lubricant is a polyoxyalkylated polyalkylene glycol ester.
- 4. (Original) The sizing composition of claim 3, wherein the non-ionic lubricant is polyethylene glycol mono-oleate.
- 5. (Original) The sizing composition of claim 1, wherein the silane coupling agent is an organosilane.
- 6. (Original) The sizing composition of claim 5, wherein the silane coupling agent is selected from the group consisting of gamma-aminopropyltriethoxy silane, N-beta (aminoethyl) gamma-aminopropyltrimethoxy silane, vinyltrimethoxy silane, gamma-glycidoxypropyltrimethoxy silane and phenylaminopropyltrimethoxy silane.

- 7. (Original) The sizing composition of claim 1, wherein the cationic lubricant is a partially amidated polyalkylene imine.
- 8. (Previously Presented) The sizing composition of claim 7, wherein the partially amidated polyalkylene imine is a condensation reaction product of polyethylene imine with a fatty acid selected from the group consisting of pelargonic acid and caprylic acid.
- 9. (Original) The sizing composition of claim 1, wherein the sizing composition provides an increased compatibility between individual glass fibers and a matrix resin in a phenolic pultrusion process.
- 10. (Currently Amended) The sizing composition of claim 1, wherein the film forming polymer is a polyamide, the silane coupling agent is an organosilane, the non-ionic lubricant is a polyayalkylated polyalkylene glycol ester, and the cationic lubricant is a partially amidated polyalkylene imine.
- 11. (Currently Amended) A method of making a sizing composition compatible with a phenolic pultrusion process comprising:

admixing 1-7 percent by weight of a <u>polyamide</u> film forming polymer, 0.5-3.0 percent by weight of a silane coupling agent, 0.5-3.0 percent by weight of a non-ionic lubricant, 0.2-3.5 percent by weight of a cationic lubricant, and greater than 0 and up to 3 percent by weight of a water dispersible polyether based polyurethane solution to form an admixture; and

agitating the admixture for a period of time sufficient to provide a homogenous composition.

- 12. (Currently Amended) The method of claim 11, wherein the film forming polymer is a polyamide, the silane coupling agent is an organosilane, the non-ionic lubricant is a polyoxyalkylated polyalkylene glycol ester, and the cationic lubricant is a partially amidated polyalkylene imine.
- 13. (Original) The method of claim 11, wherein the period of time sufficient to form an admixture is 5 10 minutes.
- 14. (Original) The method of claim 11, further comprising:
 individually pre-mixing the film forming polymer, the silane coupling
 agent, the non-ionic lubricant, and the cationic lubricant in water to form a pre-mix of
 each of the film forming polymer, the silane coupling agent, the non-ionic lubricant,
 and the cationic lubricant.
- 15. (Original) The method of claim 14, wherein the pre-mix is maintained at a temperature of approximately 70 80 °F.
- 16. (Original) The method of claim 14, wherein the water is demineralized water.
- 17. (Original) A fiber product comprising at least one glass fiber coated with a sizing composition according to claim 1.

18. (Currently Amended) A method of forming a sized glass fiber comprising:

applying a sizing composition compatible with a phenolic pultrusion process to at least one glass fiber, the sizing composition including:

- 1-7 percent by weight of a polyamide film forming polymer;
- 0.5 3.0 percent by weight of a silane coupling agent;
- 0.5 3.0 percent by weight of a non-ionic lubricant;
- 0.2 3.5 percent by weight of a cationic lubricant;

greater than 0 and up to 3 percent by weight of a water dispersible polyether based polyurethane solution; and

drying the sizing composition onto the at least one fiber to form a sized glass fiber;

wherein the sizing composition provides an increased compatibility between individual glass fibers and a matrix resin in the phenolic pultrusion process.

- 19. (Currently Amended) The method of claim 18, wherein the film forming polymer is a polyamide, the silane coupling agent is an organosilane, the non-ionic lubricant is a polyoxyalkylated polyalkylene glycol ester, and the cationic lubricant is a partially amidated polyalkylene imine.
- 20. (Currently Amended) A dry sizing composition compatible with a phenolic pultrusion process comprising:
 - 5-30 % solids content of a polyamide film forming polymer;
 - 5-50 % solids content of a silane coupling agent;
 - 20-70 % solids content of a non-ionic lubricant;
 - 1-10% solids content of a cationic lubricant; and

greater than 0 and up to 30 % solids content of a water dispersible polyether based polyurethane solution.

21. (Currently Amended) The dry sizing composition of claim 20, wherein the film forming polymer is a polyamide, the silane coupling agent is an organosilane, the non-ionic lubricant is a polyoxyalkylated polyalkylene glycol ester, and the cationic lubricant is a partially amidated polyalkylene imine.